PERHITUNGAN CADANGAN BATUBARA MENGGUNAKAN METODE *CROSS SECTION*, METODE *CIRCULAR* DAN METODE *TRIANGULAR* PADA *PIT* SELATAN DI PT. MULTI SERVICE MINING KEC. PERANAP KABUPATEN INDRAGIRI HULU, PROVINSI RIAU

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Abstrak

PT. Multi Service Mining adalah salah satu perusahaan yang bergerak dibidang kontraktor pertambangan Batubara di Peranap, Kec. Peranap Kabupaten Indragiri Hulu Provinsi Riau. Saat ini PT. Multi Service Mining bekerja sama dengan PT. Samantaka Batubara dengan luas wilayah IUP kegiatan produksi 19.040 Ha. Pada *pit* selatan belum adanya model endapan dan perhitungan cadangan batubara. Tujuan penelitian untuk mengetahui jumlah cadangan batubara dan volume *overburden.* Metode yang digunakan untuk mendapatkan perhitungan cadangan menggunakan metode *cross section*, metode *circular* dan metode *triangular*. Dari hasil menggunakan metode *cross section* didapatkan total volume *overburden* sebesar 4.525.513 m³ dan total cadangan batubara didapatkan sebesar 2.520.342,5 MT. Hasil menggunakan metode *circular* didapatkan total volume *overburden* sebesar 5.205.954 m³ dan total cadangan batubara didapatkan sebesar 2.694.800,09 MT. Sedangkan menggunakan metode *triangular* didapatkan total volume *overburden* sebesar 3.969.371 m³ dan total cadangan batubara didapatkan sebesar 1.974.845,6 MT.

Kata Kunci : Batubara, Cadangan, Cross Section, Circular, Triangular

CALCULATION OF COAL RESERVES USING *THE CROSS SECTION* METHOD, *CIRCULAR* METHOD AND *TRIANGULAR* METHOD IN THESOUTHERN PIT AT PT. MULTI SERVICE MINING PERANAP DISTRICT INDRAGIRI HULU REGENCY RIAU PROVINCE

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Abstract

PT. Multi Service Mining is a company engaged in the coal mining contractor in Peranap, Peranap District, Indragiri Hulu Regency, Riau Province. Currently PT. Multi Service Mining in collaboration with PT. Samantaka Batubara with an area of 19,040 ha of IUP production activities. In the southern *pit* there is no sediment model and calculation of coal reserves. The research objective was to determine the amount of coal reserves and volume of *overburden*. The method usedto obtain reserve calculations using *the cross section* method, *the circular* method and *the triangular* method. From the results using *the cross section* method, the total volume of *overburden* is 4,525,513 m³ and the total coal reserves are 2,520,342.5 MT. The results using *the circular* method obtained a total *overburden* volume of 5,205,954 m³ and the total coal reserves were 2,694,800.09 MT. While using *the triangular* method, the total volume of *overburden* is 3,969,371 m³ and the total coal reserves are 1,974,845.6 MT.

Keywords : Coal, Reserves, Cross Section, Circular, Triangular